IEEE P802.11
Wireless LANs

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| D1.0 CR for Section 36.3.20 |
| Date: 2021-7-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Wook Bong Lee | Samsung |  |  | wookbong.lee@samusng.com |
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Abstract

This submission proposes resolutions for the following comments on section 36.3.20 of TGbe D1.0:

* 4614, 4615, 5432, 6818, 7269, 7316

Baseline documents: TGbe D1.01.

Revisions:

* Rev 0: Initial version of the document. Use D1.01 as baseline spec text.
* Rev 1: Minor update on resolution for #7316

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

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| **CID** | **Clause Number** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 7269 | 36.3.19.4.4 | 537 | "as the average power per receive antenna ...". Is that what is meant or is it the average power over all receive antennas? If it is per received antenna, what is the averaging over? | Clarify | **Rejected:**It is per receive antennas. It has been used in 11n/11ac/11ax as well. Average power could mean average over time as well.  |
| 4614 | 36.3.20.2 | 538 | It can be hard to receive narrow RUs near DC if the receiver has appreciable RF LO leakage and has a frequency offset wrt the transmitter, and we see problems in the field. However there seems to be no test that ensures robust interoperable performance for this case. | Add a new column to Table 36-36 for a 26-tone RU spanning or adjacent to the center of the receiver's operating channel with a defined minimum sensitivity (e.g. max(-82, the sensitivity value from the 20 MHz column + 10\*log10(26/242)) | **Rejected**:For 20 MHz and 40 MHz, tone plan is same as 11ax. For 20 MHz and 40 MHz, there are more guard subcarriers for OFDMA tone plan than single RU case. For 80 MHz, there are a lot more guard subcarriers for 11be OFDMA tone plan.  |
| 4615 | 36.3.20.5 | 540 | MCS13 at 320 MHz only needs to be receivable above -34 dBm (P538L60) and below -30 dBm (P540L43), which is an absurdly narrow range of signal levels and will require great physical perseverance and/or agility in order to experience MCS13 in practice | Reduce the required sensitiivity for the higher MCSs and increase the receiver maximum input level for 5 and 6 GHz | **Need discussion:**Receive sensitivity and receiver maximum input level are minimum requirements. Thus, typical receiver can do better than the requirement. The required sensitivity for MCS 13 is based on required SNR compared with MCS 11.However, agree with commentor. We may consider to increase the receiver maximum input level for 5 and 6 GHz and reduce the required sensitivity. |
| 5432 | 36.3.20.1 | 538 | There are more than one compressed modes. Compressed modes are for non-OFDMA transmissions to a single user or multiple users. Better not to use the term "compressed mode". | Change the sentence to "The PPDU is a nonpunctured EHT MU PPDU for transmission to a single user." | **Revised:***Adopt change #1 in doc. 11-21/1216r1* |
| 7316 | 36.3.20.1 | 538 | Replace "EHT MU PPDU, compressed mode (non-OFDMA), transmitted to a single user" with "non-OFDMA PPDU transmitted to a single user" | See comment | **Revised:***Adopt change #1 in doc. 11-21/1216r1**Note to editor: Same resolution as in #5432* |
| 6818 | 36.3.20.1 | 538 | Typo: and the EHT-MCS is less than 10 or equals to 15, | and the EHT-MCS is less than 10 or equal to 15, | **Accepted** |

Change #1

*Modify P560L16-17 of D1.01 as follows,*

“The PPDU is an EHT MU PPDU without puncturing and a PPDU Type And Compression Mode field in U-SIG is equal to 1.”